

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 355 AND MD 27 IN MONTGOMERY COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE INTERSECTION CURRENTLY OPERATES AS AN EIGHT-PHASE, SEMI-TRAFFIC-ACTUATED INTERSECTION WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 355 AND SIDE STREET SPLIT PHASING. THE LEFT TURN PHASING ON MD 355 WILL BE CHANGED FROM EXCLUSIVE-PERMISSIVE TO EXCLUSIVE.

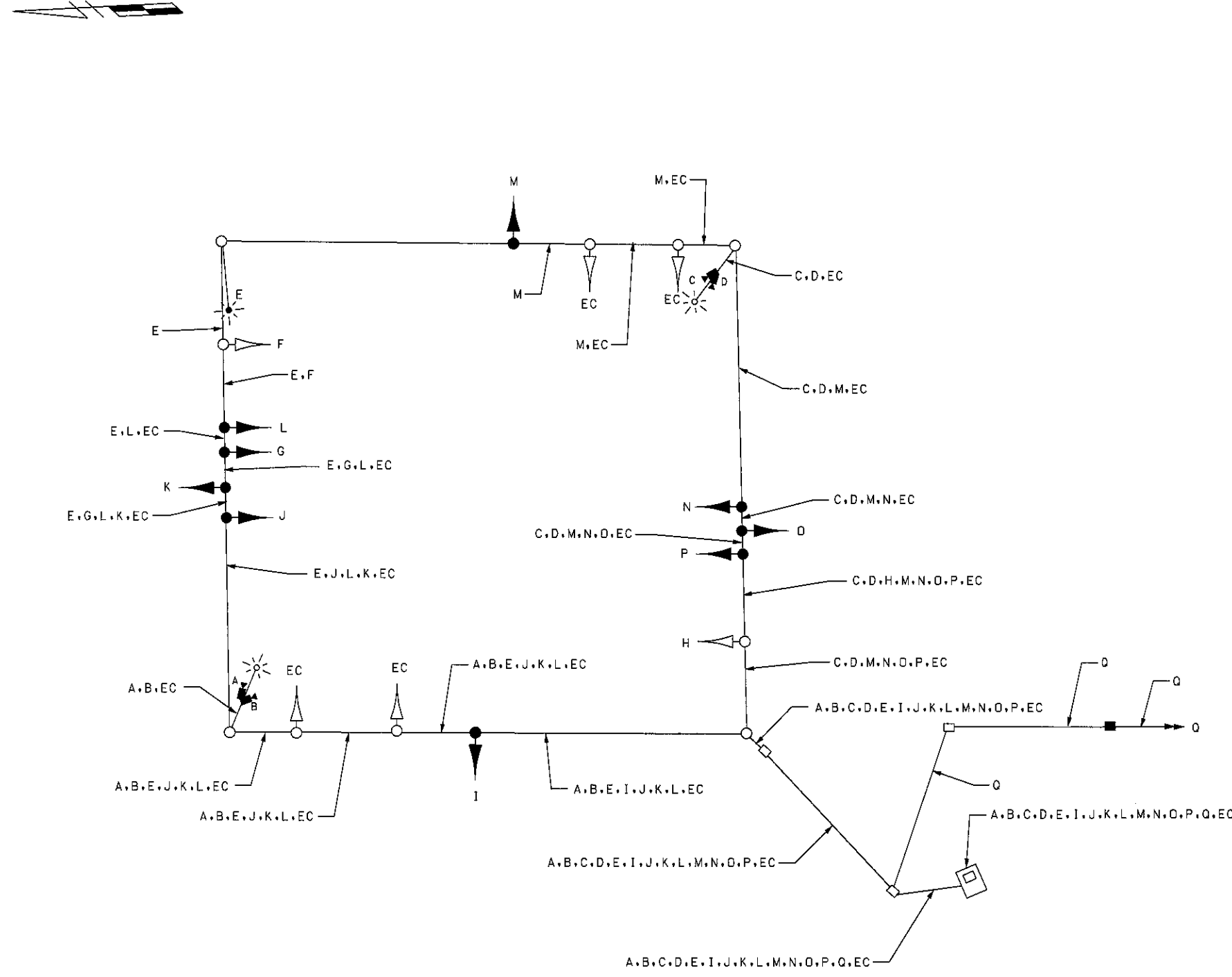
PHASE CHART																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
PHASE 1 & 5	<G-	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6																								
PHASE 1 & 6	<G-	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
1 & 6 CHANGE	<Y-	<Y-	<Y-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 2 & 5	<R-	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
2 & 5 CHANGE	<R-	<R-	<R-	R	R	<Y-	<Y-	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 2 & 6	<R-	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW	
PED. CLEAR	<R-	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW	
2 & 6 CHANGE	<R-	<R-	<R-	Y	Y	<R-	<R-	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 3	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
3 CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 3 ALT.	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
3 ALT. CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 4	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
4 CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 4 ALT.	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW	
PED. CLEAR	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW	
4 ALT. CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5004	75 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
5005	35 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8001	4 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER
8011	25 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE
8014	1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8049	4 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8050	1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
8053	480 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8072	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8076	1080 LF	FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE UNDERGROUND
8084	40 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	1830 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8086	370 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
---	3 EA	FURNISH AND INSTALL R3-5L SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	RELOCATE EXISTING SIGNAL HEAD
---	2 EA	RELOCATE EXISTING SIGN
---	1 EA	ADJUST EXISTING HANDHOLE TO FINAL GRADE

WIRING DIAGRAM



WIRING KEY

- A-D VIDEO DETECTION 250 FT. PREMANUFACTURED CABLE
- E 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- F-H 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- I-P 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- Q 12-PAIR COMMUNICATION CABLE, JELLY FILLED UNDERGROUND

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

- MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7318

MR. AUGUSTINE REBISH
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7304
- MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 513-7350
- CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652


EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANDOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

TRAFFIC CONCEPTS, INC.

Brightview Business Center
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 355 AND MD 27/RIDGE ROAD

DRAWN BY: <u>M. HOWELL</u>	F.A.P. NO. _____	TS NO. <u>870C GI</u>	SHEET NO. <u>2</u> OF <u>2</u>
CHECKED BY: <u>T. ZAYDEL</u>	S.H.A. NO. _____	T.I.M.S. NO. _____	
SCALE: <u>NONE</u>	COUNTY: <u>MONTGOMERY</u>	F-061	
DATE: <u>8-26-02</u>	LOG MILE: <u>15035519.83</u>		